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Ninety-Ninth

Commencement Exercises

University of Arkansas

Saturday, May 19, 1973



Program

Hegrees Awarded

# Commencement Exercises

# University of Arkansas

Saturday, May 19, at 5:30 p.m.

## 1973

# Program

CARILLONIC BELLS RECITAL
Processional
Star Spangled Banner ELAINE CENCEL
Invocation
Commencement Address
Conferring of Degrees
Presentation of Honorary Degrees, Citations and Awards Dr. Mullins
Alma Mater
Pure as the dawn on the brow of thy beauty Watches thy soul from the Mountains of God Over the fates of thy children departed Far from the land where their footsteps have trod Beacon of hope in thy ways dreary lighted, Pride of our hearts that are loyal and true; From those who adore unto one who adores us, Mother of Mothers, we sing unto you. — Brodie Payne
Benediction
Recessional

# Degrees in Course

## Presented by Robbin C. Anderson, Dean of the College of Arts and Sciences

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Nina Jane Cole Melvia Ann Comley Jerome Wade Compton Elota P. Condon Don Conduff Susan Diane Conley Barbara Glen Cook Joel Patrick Cook Lewis Edward Cook Rebecca Leigh Cooke David Alan Cowan Marilyn Joann Cox Sammy Earl Craft Robyn Earlene Cravens Andrea T. Cromwell Paul Dwain Cromwell James Sherwood Culberson Steven A. Curlee 4 BETT Rebecca Ann Curtis Michael B. Dabney Noble S. Dallison Sheila Jo Daniel James Scott David Albert Wavne Davis Barbara Jane Davis Hal Wayne Davis James Delbert Davis Laura Anne Davis Stephen Lewis Davis Thomas Isely Davis Wanda Jovce Davis S. Luanne Diffin Jeri Lynn Donaldson William Michael Dooley Martha Nell Downing Vickey Lou Drye Stephanie Ann Duffy Antonietta Del Duke Frankie Leon Dunkerson Henry Alan Dunsworth Michael Edward Durham Janet Beatrice Dyer Treeca Jim Dyer Jimmy Don Eaton Laura Ellen Edds Mary Beth Edwards David Michael Elms Marilyn Frances Engskov Kirby Lee Estes Mary Leeta Horne Farmer Barbara Lyn Featherston Gaston Alejandro Fernandez James Edwin Fewell Linda Lee Finley Thomas DeWitt Fitts, Jr. Brenda Kaye Fitzgerald

Donald Killough Fitzgerald Benjamin D. Fitzhugh Edwin R. Fivekiller Betty Mary Fletcher Cindy McAllister Ford Lowry Edwards Foster Janice Sue Fox Candace Janelle Rouw Fraley Jacquelyn Ruth Francis Fred James Fullerton, Jr. Carol Jean Fulton Joan Elisabeth Gardner Janet Reveley Garrett Paul Mitcham Garrett Michael S. Gault Lynette Gayle Gentry DAL Karen Elaine George Joe Dale Giles Richard Lawrence Goddard G. Wesley Goforth, Jr. David A. Goodwin Dolly Dawn Case Graham Marguerite L. Graves Stephen Carey Graves Peggy S. Gravning Richard Herman Gravson Ben James Green, III Wendell Lee Griffen Thomas Grimes Michael Dan Grounds Rita Marie Guvnn Steve Allen Halbrook Donna S. Hall Leroy Hamblen Linda Lou Hammontree Richard C. Handlen Leland T. Hankins Gary Lee Hansen Larry Joseph Harcourt Amy Fultz Hardin Jerry Edward Hargrove, Jr. Demaris Abigail Hart Harris Eunice Sherry Harris Kathleen L. Harris John Wesley Harrison Nora Eugenia Harrison Patricia Jean Harrison Mitra Hashemian Paula Elizabeth Hatley Mary Jane Hegglund James Andrews Heldt Stanley Henderson Clara Yoko Henley Mary Jane Hennig Caroline Alexandra Hepner David S. Herdlinger

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William Wert Kimpel Richard Denton Magoun Richard Allen Maxwell Joseph Sheridan Miller Grey Andrew Neal, Jr. Orval Bard Phillips Stanley Loyd Rankin James C. Reese Joseph Leo Reisz Peter A. Schrimpf James Howell Singleton David Rollins Smith Charles Preston Taylor Zealand Benjamin Thigpen, II James Barrett Thompson, Jr. Charles L. Triplett, Jr. C. Michael Waggoner Christopher G. Weiser Victor Yee Cyrus Dean Young

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Michael Buckley Paddock Ed Paul James Albert Penix, Jr. Philip David Peters James Harvey Pilkinton, Jr. James Thurman Pitts Jesse E. Porter, Jr. John Michael Powell William R. Pratt Allan F. Pruitt Jerry Damon Pruitt William P. Rainey James D. Reese Kenneth R. Reeves William Rand Riddell Marvin Hilliard Robertson Frances Howell Rudko David Parke Saxon, II Stephen M. Sharum Jonathan P. Shermer, Jr. Malcolm R. Smith Thomas Benton Smith

James D. Spears Eddie Spitzer Everett D. Stiles John McCollum Stinson, III Larry David Stubbs Phillip Jack Taylor Roy Edward Thomas Bert Vaughn Twibell George Ellis Van Hook, Jr. Rodney Carlton Wade Dewey Paul Webb, Jr. Warren Hamilton Webster John Ambler White Carolyn Lee Whitefield Janice Williams Wayne Russell Williams Jimmie L. Wilson Philip Monroe Wilson Zachary David Wilson Robert Harlin Wood, Jr. William Gary Wright

The red and white stoles worn by the degree candidates indicate graduation with Honors and High Honors respectively.

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#### MASTER OF ARTS

Michael Frederick Alsen (Speech and Dramatic Art) B.A., Adelphi Suffolk College

Rosanne H. Altman (History) B.A., Boston University

Carol J. Anderson (English)
B.A., Wartburg College

Lee C. Archie (Philosophy) B.A., Austin College

Sharon Kay Armstrong (Speech and Dramatic Art)

B.S.E., Arkansas State University Thomas V. Ashworth (Political Science)

B.A., Arkansas Polytechnic College James Louis Baird (Spanish)

B.A., University of Arkansa

Arthur Jackson Baker (English) B.A., Memphis State University

Susan Dawn Barnes (Speech and Dramatic Art) B.S., West Virginia University

Robert Max Barrett (Speech and Dramatic Art) B.S., Nebraska Wesleyan University

Marilyn L. Bates (English) B.A., Augustana College

LynnDianne Beene (English) B.A., University of Arkansas

Jessica A. Beleele (Speech and Dramatic Art) B.A., Oklahoma City University

Kittena Puckett Bell (Sociology) B.A., University of Arkansa

Donald Richard Bennett (Speech and Dramatic Art) B.A., Little Rock University

Larry Joe Boccarossa (Political Science) B.A., University of Arkansas

Janet Louise Sorensen Borengasser (Spanish) B.A., Washington University

Robert L. Borengasser (Economics) B.A., University of Arkansas

Elsie Anne Boyter (English) B.A., Stetson University

Curtis F. Bradbury (Economics) B.S.B.A., University of Arkansas

Barbara Jeanne Braun (English) B.A., Houghton College

Janis Angeline Cantwell (English) B.A., University of Arkansas

Cy Carney, III (Political Science)
B.A., University of Arkansas

William Neal Carroll (History) B.A., University of Arkansa

Joseph Carruth (English) B.S.B.A., University of Arkansas Hon-shak Chan (Political Science) LL.B., National Chenghi University

Albert Maurin Charlton, Jr. (English) B.A., Spring Hill College

Stacy M. Clanton (English) B.A., Arkansas A. & M. College

Norma Carol Clark (Geography) B.S.E., Bridgewater State Teachers College

Richard W. Claybaker (Philosophy) B.A., Valparaiso University

Carol Jed Claybrook (Speech and

Dramatic Art)
B.A., Central Methodist College

Dan Campbell Cowling, III (Speech and Dramatic Art) B.A., University of Arkansas

Betty Dahl Cummings (Speech and Dramatic Art) B.A., University of Arkansas

Carolyn Suzanne David (Speech and Dramatic Art) B.A., University of Arkansas

Bruce Eugene Davis (Sociology) B.A., Little Rock University

Shelly Davis (Anthropology) B.A., University of California

Marie Deacon (History) B.A., University of Arkansas

Nancy Mae Duffy (French)
A.B., Arkansas A. M. & N. College

Kay Niell DuVal (English) B.S.E., Arkansas State University M.S.E., Arkansas State University

Robert Alan Esther (English) B.A., Southwest Missouri State College

Elaine M. Eubanks (Political Science) B.A., Hendrix College

David William Frizzell (Philosophy) B.A., University of Arkar

Lorene Frost (English) B.S.E., University of Arkansas

Richard Galbraith (Mathematics) B.A., Arkansas College

Ervan George Harrison (Anthropology) B.S., University of Arkansas

Phyllis Ruth Gaylor (English) B.A., Kansas State College

William Dell George, Jr. (Speech and Dramatic Art) B.A., University of Arkansas at Little Rock

R. C. Gilbrech, Jr. (English) B.A., University of Arkansas

Marsha B. Goldfinch (Speech and Dramatic Art) B.A., Carson-Newman College

Ann Scott Gray (English) A.B., Queens College

John Edgar Green (Speech and Dramatic Art) B.A., Ouachita Baptist University

Julie Taylor Green (Humanities) Vivian Vicki Lee (Speech and B.F.A., Southern Methodist University Dramatic Art) Carl W. Guhman (Economics) B.S.E., University of Arkansas Montie Lumpkin (History) B.S.E., University of Arkansas A.B., Grinnell College Jon Anthony Hall (Psychology) B.A., Oklahoma City University Barbara Joyce Lust (English) Lawrence R. Handley (Geography) B.A., Memphis State University B.A., University of Arkansas George Ella Hoskins Lyon (English) Janet Kemp Hanks (Mathematics) B.A., Centre College B.A., University of Arkansas Rolla Jack Magruder, III (Speech Frances I. Harmon (Spanish)
B.A., Little Rock University and Dramatic Art) B.A., University of Arkansas Toni Maria Harmon (Speech and Carl David Mangum (Geography) Dramatic Art) B.S., New Mexico State University B.A., University of Arkansas Douglas William Marr (Speech and Albert Robin Harz (Psychology) Dramatic Art) B.S., Arkansas State Teachers College B.A., University of Arkansas Nobuhiro Hasegawa (Political Warren Craig Maus (English) B.A., University of Arkansas Science) B.A., Waseda University Charles Albert Mazziotti (Geography) Judith Carol Ledbetter Hayden B.A., University of New Mexico David T. McConaughy (German) (Speech and Dramatic Art) B.S.E., University of Arkansas B.A., Elmhurst College H. Kay McElveen (Political Science) B.A., University of California Robert Ellis Hendrickson (Economics) Linda S. McKinney (Spanish) B.A., Arkansas Polytechnic College B.A., Oklahoma State University Berton E. Henningson (History) Mary Sue Mistric (French) B.A., University of Minnesota B.A., State College of Arkansas Teddy L. Henley (History) Charles W. Morrison (English) B.A., Arkansas Polytechnic College B.A., Illinois State University Jeremy Hess (English) David Michael Movers (History) B.A., Knox College B.S., Arkansas A. & M. College John C. Highfill (Comparative Nancy Jean Murphy (English) B.A., Southern State College Literature) B.A., Ouachita Baptist College Judy Nichols (Social Welfare) Robert Henry Hodges (Political B.S., Southwest Missouri State College Science) Kathryn Ritgerod Nickles (History) B.A., University of Arkansas B.S.E., University of Arkansas Brenda F. Holland (Secondary Kathryn Melinda Nixon (English) B.A., Clemson University Mathematics) Prudence Luther Orr (Psychology) B.S., Grambling College B.S., East Texas State Universit Gary John Holman (Speech and Bessie Barnes Otis (French) Dramatic Art) B.A., Dillard University B.S.B.A., University of Arkansas Cherry N. Owens (Comparative Jo-Hanna Hansen Howe (Sociology) Literature) B.S.E., Southwest Missouri State College B.A., Union College Susan Matthews Hyden (Speech Joel Ray Parker (Anthropology) and Dramatic Art B.S., North Carolina State University B.A., University of Arkansas Rave Payne Parker (Secondary Lois Marion Jackson (Secondary Mathematics) B.S., Southern State College Mathematics) Susan Kay Philpott (History) B.S., Grambling College B.A., Drury College Mary Lynn Jeffers (Speech and Martha S. Poynor (Speech and Dramatic Art) B.A., University of Tulsa Dramatic Art) B.S.E., University of Arkansas Judy White Johnson (Psychology) Charles Claiborne Price (Economics) B.A., University of Arkansa B.A., Hendrix College Sandra Jean Jones (Psychology) Donna Balcom Reddout (English) B.S., Arkansas State Teachers College B.A., Oklahoma State University James Thurston Kirk (Sociology)
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B.A., Nanyang University

B.A., Drake University

Karen Lynn Salley (Psychology)
B.S., Arkansas State University

Rosalie M. Sanderson (History) B.S.E., State College of Arkansas

Steven E. Sanderson (Political Science)

B.A., State College of Arkansas

Reno Schalm (Geography)
B.A., University of Saskatchewan

Betty Ruth Schenck (Political Science)

B.A., University of Arkansas

Dena Scher (Psychology)
B.A., Boston University

Elise Howell Scherer (Comparative Literature)

B.A., University of Arkansas

Janice Elizabeth Sanford Scott (Secondary Mathematics) B.A., Meredith College

Kay Frances Scott (Speech and Dramatic Art) B.A., Southwestern Missouri State College

Judith Anne Sealander (History)
B.A., University of Arkansas

Paul D. Shaffer (Speech and Dramatic Art)

B.F.A., Drake University

Timothy Robert Smallwood (Political Science)

B.A., University of Southern California

Craig Bradford Smith (English) B.A., University of Arkansas

Diann Sutherlin Smith (English) B.A., University of Arkansas

Stephen Austin Smith (Speech and Dramatic Art) B.A., University of Arkansas

Karen Kay Spence (Speech and Dramatic Art) B.S., Evangel College

Robert Lewis Spray, Jr. (Psychology)
B.A., University of Oklahoma

Katherine Diane Starnes (Psychology)

B.A., University of Arkansas

Michael Leon Stokesbury (English) B.A., Lamar State College of Technolog

Herbert Lee Stout (German) B.A., Hardin-Simmons University B.S., Hardin-Simmons University

Bruce Edward Taylor (English)
B.A., Bridgewater State College

Cheryl J. Thompson (English) B.A., Millsaps College

David Errol Thompson (English) B.A., Clemson University

Donald M. Thompson (Geography) B.A., University of Arkansas

Mary Anita Tibbits (Spanish) B.A., University of Arkans

Shirley A. Tuft (Psychology)

Fred J. Van Driesum (Political Science)

B.A., Michigan State University

Charles L. Vehorn, Jr. (Political Science) B.A., University of Notre Dame

Annie B. Vincent (French) B.A., University of Oklahoma

Lieu Vun-chau (Political Science) LL.B., National Chengchi University

Janine Watson (English)
B.A., University of Southwestern Louisiana

Roxana S. Willis (English) B.S.E., University of Arkansas

Paul David Wilson (Mathematics) B.S.E., University of Arkansas

Daria Anne Wineland (Speech and Dramatic Art) B.A., University of Arkansas

Pin Wongnaradhivat (Political

B.S., Thammasat University

Nan Elizabeth Woodruff (History) B.A., Jacksonville State University

John Michael Woods (Political Science)

B.A., University of Arkansas

Nancy Bryan Zechiedrich (Spanish) B.A., Louisiana Polytechnic Institute

## MASTER OF PUBLIC ADMINISTRATION

Amnuay Aungabsee (Public Administration)

B.A., Chulalongkorn University

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B.S.E., University of Arkansas Joe Frank Chappell (Public

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Donna Blume Smith (Public Administration)

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B.A., Randolph-Macon College immons

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James Edward Aikman (Entomology) Barbetta Jewel Moore Crawford B.S.A., University of Arkansas (Bacteriology) B.S.E., Northeastern State College Harry E. Appleby, Jr. (Chemistry) A.B., Drury College Kenneth R. Cupples (Agricultural Anna Joyce Asher (Home Economics) Economics) B.S.A., University of Arkansas B.A., School of the Ozarks Curtis Rodgers Davis (Animal Aiar Atiqullah (Agronomy-Crop Science) B.S.A., Arkansas State University B.S., Kabul University Udom Dechmani (Plant Pathology) William Edward Barnes Jr. B.S., Kasetsart University (Management) Clinton Gail Depew (Animal B.S.B.A., The Citadel Breeding) Harold Franklin Beamer B.S.A., University of Arkansas Shirley Killeen DesLauriers (Management) B.S., Virginia Polytechnic Institute (Natural Sciences) Vicki Lynn Berry (Home Economics)
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Economics)

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Economics)

B.S.H.E., University of Arkansas

B.S.H.E., University of Arkansas

Carol Anne Perry (Child Development and Family Relations)

B.S., Arkansas State University

John E. Lamons (Management)
B.S., Northeastern State College

Roger Paul Leach (Management)

B.S., Middle Tennessee State College

Sallie Jane Ferrell Perry (Home Michael George Stocker Economics) (Management) B.A., University of Evansville B.S.H.E., University of Arkansas Gary Craig Pittenger (Geology) Patricia Marie Stoll (Zoology) B.S., Northeast Louisiana B.S.E., University of Arkansas Samuel Don Porterfield John David Story (Bacteriology) B.A., University of Texa (Management)
B.S., The Citadel Kenneth Jackson Thomas (Zoology) B.A., Hendrix College Sandra Michael Reed (Child De-Stanley E. Trauth (Zoology) velopment and Family Relations) B.S., University of Arkansa B.S.H.E., University of Arkansas Dovle Wavne Treat (Animal Berthal Dean Reynolds Science) (Horticulture) B.S.A., University of Arkansas B.S.A., University of Arkansas Bob L. Trogdon (Management) John Thomas Richardson (Natural B.G.E., University of Omaha Sciences) John Franklin Trotter, Jr. B.S.A., University of Arkansas (Natural Sciences) Bernard D. Roberts (Management) B.S., Davidson College B.S., University of Missouri Jen-hsiung Tung (Physics) Fred T. Robinson, III B.S., Chen Kung University (Agronomy-Crop Science) Allen Keith Underwood (Entomology) B.S.E., Delta State College B.S.A., University of Arkansas Jo June Ross (Child Development Omer Gerald Van Brunt (Animal and Family Relations) Science) B.S.E., Southwestern Missouri State College B.S.A., University of Arkansas Steven K. Rutledge (Agronomy-Terry Len Vandal (Management)
B.A., Lamar State College of Technology Crop Science) B.S., Abilene Christian College Clarence Emory Ward. Jr. Gary Lamont Sanders (Animal (Management) B.S., Southwestern State College Science) B.S., Arkansas A & M College Withoon Wardhanabhuti (Agronomy-Gregory Mark Savino (Management) Crop Science) B.A., Marietta College B.S., Khon Kaen University Wolfgang Schubert (Chemistry) John William Watson (Mathematics) Vordiploma, Freie University of Berlin B.A., University of Arkansas David Dale Scott (Agronomy-Dennis Welch (Zoology) Soil Science) B.S., Little Rock University B.S.A., University of Arkansas Gary Lee Wells (Animal Science) Danny Joe Segraves (Agronomy-B.S.A., University of Arkansas Anthony White (Management) Crop Science) B.B.A., University of Oklahoma B.S.A., University of Arkansas Thomas D. Wiers (Management) Franklin E. Senft (Management) B.A., Creighton University B.S., Colorado State College Patricia Ann Wiggins (Food and Francis Dale Sharp (Management)
B.S., Arkansas Polytechnic College Nutrition) Roy Neil Sharp (Animal Nutrition) B.S.H.E., University of Arkansas Kenneth Ray Williams (Entomology) B.S.A., University of Arkansas Parvin C. Singal (Computer Marion Ophelia Williams (Natural Science) Sciences) B.S., Panjab University M.S.I.E., University of Arkansas B.S., Arkansas A. M. & N. College Paulette Shoemaker Wilson Herbert Hereford Smith (Computer) Science) (Chemistry) B.A., Marshall University B.S., Southeastern Louisiana College Carol Erich Snowden (Home Susan Hayes Woodhead (Plant Economics)
B.S.H.E., Texas Women's University Pathology) B.S., Kansas State College of Pittsburg Samuel W. Word (Animal Science) Brian Douglas Spurlock B.S.E., University of Arkansas (Agricultural Economics) B.A., University of Arkansas Dennis Alexander Yaskowsky Alvie Leon Stacey (Entomology)
B.S., Oklahoma State University (Management) B.B.A., Upsala College Katherine Jean Stewart (Home Santford Crenshaw Young, Jr.

(Entomology)

B.S., Henderson State College

Economics)

B.S.E., State College of Arkansas

#### MASTER OF BUSINESS ADMINISTRATION

Artemus C. Adams, Jr.
B.S.B.A., Henderson State Teachers College

John Robert Bass B.S.E.E., University of Arkansas

Tommy D. Bateman
B.S.B.A., University of Arkansas

David Lee Bell
B.S.I.M., University of Arkansas

Joseph Michael Chirko B.S., Bowling Green State University

Jene W. Conwell B.S.B.A., University of Tulsa

Thomas James Cosse
B.A., University of Southwestern Louisiana

Richard Wyatt Crawford B.S.B.A., University of Arkansas

Frank Steve Crow B.S.E.E., University of Arkansas

Kenneth Roger Earnest B.S.E., University of Iowa

Charles Joseph Enderlin B.S., St. Louis University

Keith Edward Faulkner B.S.B.A., University of Arkansas

William Ferguson B.S.B.A., University of Arkansas

John Jacob Ford B.A., Tarkio College

Don L. Gibson B.S.B.A., University of Arkansas

William Henry Glover, Jr. B.S.I.M., University of Arkansas

Ralph Gregory Gordon B.S., College of the Ozarks

Victor Osceola Gray B.S.B.A., University of Arkansas

Robert Eric Hamilton B.A., Westminster College

Edward Lee Harmon B.S., College of the Ozarks

Stanley Peter Hidalgo, III B.A., University of Texas

Roger Allan Hunter B.S., Ferris State College

John Calvin Jeffers B.B.A., Arkansas A. & M. College

James Edward Justiss B.S.B.A., University of Arkansas

Windle E. Kirk
B.S., University of Maryland

Kenneth R. Lambert
B.S., Southeast Missouri State College

David Joseph Lynch B.S., St. Peter's College

James Phillip Malcom B.S.B.A., University of Arkansas

Gerald Clarence Mason B.S., University of Vermont James T. May B.S.B.A., University of Arkansas

James Shaw McDonald, Jr. B.S.B.A., Southern State College

George Rucker Meador B.S., Arkansas Polytechnic College

Ernest Murl Meredith
B.S.E.E., University of Arkansas

Steven Kirk Meyer B.S.B.A., University of Arkansas

James William Monk, Jr. B.S.C.E., University of Arkansas

JoAnn Swan Neely B.S.B.A., University of Arkansas

John Edward Neely B.S.E., University of Arkansas

Stephan Lindall Nipper B.S.B.A., University of Arkansas

Jimmy R. Norris B.S.B.A., University of Arkansas

James D. O'Bryan
B.S., University of Dayton

Jerry L. O'Neal B.A., Henderson State College

Sakchai Onkvisit B.S., Thammast University

Paul F. Politte
B.S., Henderson State College

David John Rew B.S.B.A., University of Arkansas

Rondal Dale Rippy B.S.B.A., University of Arkansas

Jon Eric Robertson
B.S.B.A., University of Arkansas

David R. Seaton
B.S.B.A., University of Arkansas

Marvin Roy Smith, Jr. B.S., University of Arkansas

Batte T. Stanton
B.A., Hendrix College

Robert Doak Sullivan
B.S.B.A., University of Arkansas

John Richard Tatom B.A., Ouachita Baptist University

Alton D. Thiele
B.B.A., Baylor University

Harry Robert Dean Tolliver B.S.B.A., University of Arkansas

Shubhang Madhukumar Vora B.Sc., Gujarat College

Marcus Alexander Watson B.S.B.A., University of Arkansas

John L. Wells B.S.B.A., University of Arkansas

William Joe Wells B.S.B.A., University of Arkansas

James A. Williams, Jr. B.A., University of Arkansas

#### MASTER OF EDUCATION

Ross E. Amundson (Counselor Nina June Brown (Elementary Education) Education) B.S.E., Central Missouri State College B.S., Wisconsin State University Shirley Gaylene Brown (Secondary Sandra Saint Anderson Vocational Education) Education) B.S.B.A., University of Arkansas B.S.B.A., University of Arkansas Mary Elizabeth Brown Banks Charles E. Bruce (Counselor (Secondary Education) B.S.E., University of Arkansas Education) B.A., Arkansas A. M. & N. College David L. Barnes (Educational Mary Jane Pearman Burns (Elementary Education)
B.S.E., Ouachita Baptist University Administration) B.S.E., Arkansas A. & M. College Ann Ellefson Cabell (Counselor Jan Alexander Barnett (Recreation) B.S.E., University of Arkansas Education) Willis H. Baston (Educational B.S.E., University of Arkansas Don Case (Counselor Education) B.A.E., Western Washington State College Administration) B.S., Florida State University Nancy Lowe Batson (Physical Fran Cille Cassidy (Secondary Education) Education) B.S., Southwest Missouri State College B.A., University of Arkansas Yang Paik Chiang (Secondary Kathleen Black Beckworth Education) (Vocational Education) B.A., Taejon Presbyterian B.S.E., Southwest Missouri State College Patricia Ann Clanton (Secondary Antoinette Marie Beland (Counselor Education) Education) B.S.E., Arkansas A. M. & N. College B.A., Rosary College Edwin M. Clark (Physical Judith Owens Belew Education) (Elementary Education) B.S.E., University of Arkansas B.A., Hendrix College Jimmie Porter Clark (Elementary Bruce Bennett (Music Education) B.A., Northeastern State College Education) B.S.E., Southern State College John Lewis Bess (Educational Joan McCain Collier (Elementary Administration) B.S.E., University of Arkansas Education) B.S.E., University of Arkansas James Porter Bone (Health George Henry Connell, III Education) B.S.E., University of Arkansas (Educational Administration) Ronald K. Bovay (Physical B.S.E., Arkansas A. & M. College Education) Donald E. Cook (Secondary B.S., Arkansas Polytechnic College Education) Joe David Boyd (Counselor B.S.E., University of Arkansas Education) Ann Lupton Creekmore (Elementary B.S.E., University of Arkansas Education) Janie Mazanti Boyer (Counselor B.S.E., University of Arkansas Education) Carolyn E. Cromer (Special B.S.E., State College of Arkansas Education) B.S.E., Ouachita Baptist University Robert Louis Brack (Music Education) Kevin Haves Danaher (Recreation) B.S., Tennessee State University B.S.E., University of Arkansas Sandra C. Bratton (Elementary Melvin Lee Daniel (Vocational Education) Education) B.S.E., Arkansas State University B.S., Oklahoma State University Barbara Jo Simons Bray Garland Keller Deal (Counselor (Physical Education) Education) B.A., Butler University B.S.B.A., University of Arkansas Juanita Pennington Brians Paul L. Devenas (Counselor

Education)

Education)

B.A., Hendrix College

B.A., Arkansas Polytechnic College

Sue Ellen Driver (Counselor

(Business Education)

(Counselor Education)
B.A., Hendrix College

B.A., Arkansas College

Frances Virginia Brown

William Joseph DuBois, Jr. (Secondary Education)
B.A., University of Arkansas

Dennis L. Duggan (Vocational Education)

B.S.A., University of Arkansas

Gerald Lynn Duran (Educational Administration) B.S.E., Arkansas State Teachers College

Natalie Carlene Dyer (Counselor

Education)

B.S.E., University of Arkansas

Donna Kaye Cypert Dyson (Elementary Education) B.S.E., University of Arkansas

Darlene Kathryn Gaspard Elliott (Elementary Education) B.S.E., University of Arkansas

Jannette Rose Epes (Secondary Education) B.S.E., University of Arkansas

Annie Gaskin Etherly (Vocational Education)

B.S., Arkansas A. M. & N. College

Marilyn Elizabeth Evans
(Elementary Education)
B.A., Philander Smith College

John Patrick Failla (Vocational Education) B.S.A., University of Arkansas

Barbara Jane Faught (Business Education) B.S., Arkansas Polytechnic College

Frank L. Fickle (Counselor Education)

B.S.B.A., University of Arkansas
Travis Finley (Special Education)
B.S.E., University of Arkansas

Lela Ann Fisher (Vocational Education)
B.S.E., Henderson State Teachers College

John E. Fox (Educational Administration) B.S.E., University of Arkansas

Julia Frances Freeman (Recreation) B.S.E., University of Arkansas

Kay Drennan Fulton (Vocational Education)
B.S.H.E., University of Arkansas

Diane McLean Galloway (Vocational Education)
B.S.E., Henderson State College

Rex L. Grimsley (Vocational Education) B.S.E., University of Arkansas

Sara Helene Hagerman (Elementary Education) B.S.E., University of Arkansas

Thelma Stigler Hall (Secondary Education)
B.A., Union University

Beverly Claire Harp (Elementary Education)
B.A., Little Rock University

Donald F. Haxel (Educational Administration) B.S., Northeastern State College

Kathryn C. Henderson (Counselor Education) B.S., Arkansas A. M. & N. College

Faith M. Hickman (Elementary

Education)
B.S.E., University of Arkansas

John Dandridge Hollimon, Jr. (Educational Administration) B.S.E., Arkansas A. & M. College

Lorene Kennon Hollingsworth (Secondary Education) B.S., University of Arkansas

Thomas W. Hon (Secondary Education)
B.A., University of Evansville

Sara Sidney Hooker (Elementary Education) B.S.E., University of Arkansas

Gloria Weatherly Hopper (Vocational Education) B.S.H.E., University of Arkansas

Susan Ann Horton (Vocational Education)

B.S.H.E., University of Arkansas

Dorothy E. Hosford (Educational Media)
B.A., Barry College

Joseph Paul Huber (Counselor Education)

B.S.B.A., University of Arkansas Karen S. Hudson (Higher

Education)
B.A., University of Arkansas

Mac W. Huffman (Educational Administration) B.A., Hendrix College

Sally Kendall Hunt (Counselor Education) B.A., University of Arkansas

Sterling Ingram (Music Education)
B.S., Tennessee State University

Rebecca Kay James (Recreation)
B.S.E., University of Arkansas

Frank Willard Joenks (Secondary Education) B.A., Buena Vista College

Alma J. Johnston (Secondary Education) B.S.E., Midwestern University

Brenda Bryan Jones (Special Education) B.S.E., Ouachita Baptist University

James Kenneth Jones (Educational Administration) B.S.B.A., University of Arkansas

Jamie Luther Jones, III
(Recreation)
B.S.E., University of Arkansas

Dorothy McLeod (Elementary Janice Kane (Physical Education) B.F.A., Stephens College Don L. Keeton (Physical Education)
B.S.E., University of Missouri Margaret Helen Kemp (Vocational Education) B.S.H.E., University of Arkansas Bobby Neil Kilgore (Music Education) B.A., Arkansas Polytechnic College Chang Kew Kim (Physical Education) B.S., Seoul National University B.S., Little Rock University Elveda O. Kutait (Vocational Education) B.S.E., Southwest Missouri State College David E. L. Land (Educational Administration) B.A., University of Arkansas Margaret Terhune Laxson (Elementary Education) B.S.H.E., University of Arkansas Laura Beth Lester (Vocational Education) B.S.E., State College of Arkansas Odell Davidson Leveritt (Elementary B.S., Arkansas A. & M. College Brenda Guinn Lewellen (Secondary Education) B.S., University of Arkansas James L. Lockwood (Secondary Education) B.S.E., Henderson State Teachers College Anna Idella Long (Elementary Education) B.S.E., University of Arkansas Ralph Edmond Marcum (Educational Administration) B.S.E., Henderson State Teachers College Frances Elaine McClary (Music Education) B.M.E., Southeast Missouri State College Theodore Paul McConnaughey (Counselor Education) B.S.E., State College of Arkansas Darrell Gene McCov (Vocational Education) B.S.E., Arkansas State Teachers College Martha Margaret Michel McDermott (Counselor Education) B.A., University of Arkansas Robert Dale McDonald (Music Education)

B.S.E., University of Arkansas

Phyllis K. McGinty (Home

Economics Education)

B.S.H.E., University of Arkansas Phyllis Marguerite McGuire

(Elementary Education)
B.S.E., University of Arkansas

B.S.E., University of Arkansas

Administration)

Diane Cook Miller (Elementary Education) B.S.E., University of Arkansas Dennis Walton Moore (Vocational Education) B.S.E., University of Arkansas Edward J. Mullens (Elementary Education) B.A., College of the Ozarks Ginger Kaye Murdoch (Music Education) B.M.E., Quachita Baptist University Edna D. Neal (Counselor Education) A.B., Arkansas A. M. & N. College Jeanne H. Newberry (Music Education) B.A., Ouachita Baptist College Mary E. Osborne (Elementary Education) B.A., Arkansas Polytechnic College William Howard Osbun (Counselor Education) B.S.E., University of Arkansas Rhoda Leanne Payne (Higher Education) B.A., Wheaton College Roscoe Rovce Pendergrass (Vocational Education) B.S.A., Arkansas State College Margaret E. Pennington (Elementary Education) B.S.E., University of Arkansas Wendell Oliver Phillips (Vocational Education) B.S.E., Arkansas State University Nancy Elizabeth Pollard (Secondary Education) B.A., University of Arkansas Dorothy Rae Polsgrove (Secondary Education) B.S., College of the Ozarks Marita A. Pratt (Elementary Education) B.S.E., University of Arkansas Sherry Elaine Allen Price (Secondary Education) B.S.E., University of Arkansas Beverly Cruse Woods Reed (Secondary Education) B.S., University of Arkansas Carolyn Kay Burchett Reed (Physical Education) B.S.E., Northwestern State College Ethel Jones Reed (Secondary Education) B.A., University of Arkansas John Pierce McKinnon (Educational Jane Cater Reed (Secondary Education) B.S.E., Northeastern Oklahoma State College

Education)

B.S.E., University of Arkansas

Michael Reynaldo Rodriguez (Counselor Education) B.A., University of Arkansas

Carol Doak Rogow (Elementary Education)

B.S., University of Arkansas

Linda Louise Rohrer (Secondary Education)

B.A., University of Arkansas

Elizabeth Rossi (Elementary Education)

B.S.E., Our Lady of the Lake College

Nancy E. Montgomery Rubin (Elementary Education) B.A., University of Illinois

Mary Ann Russo (Counselor

Education)

B.A., University of Arkansas at Little Rock

Jimmie Sherwood Sadler (Educational Administration) B.S.E., Arkansas A. & M. College

Gerald Leon Sanders (Educational Administration)

B.S., College of the Ozarks

Kay Louise Scott (Elementary Education)

B.S., Florida Southern College

Charles Edward Scroggins (Counselor Education) B.S.E., Arkansas A. & M. College

Rebecca Jean Sellars (Secondary Education)

B.S.E., University of Arkansas

Sara Beth Sessions (Secondary Education)
B.A., University of Arkansas

Robert Edward Shaver (Educational Administration)
B.S.E., Arkansas State Teachers College

Barbara Peel Shaw (Secondary Education)
B.S.E., University of Arkansas

Donna Marie Shaw (Counselor Education) B.A., University of Arkansas

Mary Margaret York Shermer (Elementary Education) B.A., Hendrix College

Judith B. Shinall (Elementary Education) B.S.E., University of Arkansas

Mary L. Short (Counselor Education) B.S.E., Kansas State Teachers College

Sharyn M. Sides (Business Education) B.S., Jouisiana State University

Saundra K. Singleton (Counselor Education)
B.A., University of Arkansas at Little Rock

Robbie E. Skaggs (Elementary Education) B.S., Mankato State College Edith Ellen Eggerman Smith
(Elementary Education)
B.S.E., Henderson State Teachers College

Billy Bob Spicer (Elementary Education)

B.S.E., University of Arkansas

Morris H. Springer (Counselor Education)

B.A., Bethel College

Donald M. Stewart (Educational Administration) B.S.E., Arkansas State College

Benny Franklin Stovall (Elementary Education)
B.S., Arkansas Polytechnic College

Patty E. Sullivan (Physical

Education)

B.A., Henderson State College

Janice Summerhill (Counselor Education)
B.S.E., University of Arkansas

Lynne Ellen Tanner (Secondary Education)

B.S.E., University of Arkansas

Constance Suzan Teague (Counselor Education)
B.A., University of Arkansas

Jack W. Terry (Elementary Education)

B.S.E., Southern State College

Deborah Lucille Thompson (Counselor Education) B.S.E., University of Arkansas

Susan Noyce Thompson (Music Education) B.M.E., University of Nebraska

Saundra L. Tollett (Elementary Education)
B.A., Harding College

Renay M. Trotter (Secondary Education)
B.S.E., University of Arkansas

Lehman R. Turner (Vocational Education) B.S.A., University of Arkansas

Wilma Jane G. Turner (Elementary Education) B.S.E., University of Arkansas

Alice Clydene Tyree (Elementary Education) B.S.E., University of Arkansas

Joan Peterson Vanderboom (Vocational Education) B.S.H.E., University of Arkansas

Merle Dean VanRiper (Educational Administration) B.S., College of the Ozarks

Richard L. Verlee (Counselor Education) B.A., University of Arkansas

Dee C. Waller (Counselor Education)
B.S.E., Southern State College

Jimmy Wallis (Vocational Education) B.S.A., University of Arkansas
Larry E. Ward (Vocational

Education) B.S.E., Arkansas State University

Gary Houston Watson (Educational Administration)

B.S.E., Southern State College

S. JoAnn Dobson Whitlatch (Elementary Education) B.A., University of Tulsa

Darcy Ann Wilkinson (Secondary Education)

B.S.E., Arkansas State University

Bernice M. Williams (Elementary Education)

B.S., Arkansas A. M. & N. College

Doris G. Williams (Elementary Education)

B.S.E., University of Arkansas

Kathryn N. Williams (Elementary Education)

B.A.E., Little Rock University

Roger Dale Williams (Vocational Education) B.S.B.A., University of Arkansas

Shirley Mae Williams (Secondary Education)

B.S., Arkansas A. M. & N. College

W. C. Williams (Vocational Education) B.S.E., University of Arkansas

Buford Joe Willis (Educational Administration) B.S.E., Arkansas A. & M. College

Chester E. Woodruff (Educational Administration) B.S.E., University of Arkansas

Eric Edward Wright (Physical Education) B.S., Arkansas State University

Jane Evans Yeargan (Secondary Education) B.S.E., University of Arkansas

#### MASTER OF SCIENCE IN AGRICULTURAL ENGINEERING

Douglas Ronald Hines (Agricultural Engineering) B.S.Ag.E., University of Arkansas

#### MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Lawrence H Gasper, III (Chemical Engineering) B.S.Ch.E., University of Arkansas Loren T. McCune (Chemical

Engineering)
B.S.Ch.E., University of Arkansas
Usman U. Patel (Chemical

Engineering) B.E., University of Baroda M.S., University of Baroda James Robert Reinhardt (Chemical Engineering)
B.S., University of Southwestern Louisiana

I. Jon Seward (Chemical Engineering) B.S.Ch.E., University of Arkansas

## MASTER OF SCIENCE IN CIVIL ENGINEERING

Gary L. Carnahan (Civil Engineering) B.S.C.E., University of Arkansas Douglas Doyle Drury (Civil

Engineering)
A.A., College of the Desert Kai-ling Hwang (Civil Engineering)

B.A., Cheng Kung University

Vernon Duainne Rowe (Civil Engineering) B.S.Ch.E., University of Arkansas

Charles Franklin Russenberger (Civil Engineering)

B.S.C.E., University of Arkansas

William Arthur Spratlin, Jr. (Civil Engineering) B.S.C.E., University of Arkansas

### MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Allen Wayne Baker (Electrical Engineering)

B.S.E.E., University of Arkansas

George Lawrence Brantingham (Electrical Engineering) B.S.E.E., University of Arkansas

Larry G. Collier (Electrical

Engineering)
B.S.E.E., University of Arkansas

Edward Charles Gillow, II (Electrical Engineering)
B.S.E.E., University of Arkansas

Shanbhag Madhav H. (Electrical

Engineering) B.S.E.E., K.R. Engineering College

Phillip Woodrow Hall (Electrical Engineering)

B.S.E.E., University of Arkansas

Hwang Kai-shiu Kell (Electrical Engineering)

B.S.C.E., Cheng Kung University

Charles Lee Mayfield (Electrical Engineering)

B.S.E.E., University of Arkansas

Ronald D. Morchead (Electrical

Engineering) B.S.E.E., University of Arkansas

George R. New (Electrical

Engineering)

B.S.E.E., University of Arkansas

Allen Wayne Richmond (Electrical

Engineering)
B.S.E.E., University of Arkansas

Hiroo Sakamoto (Electrical Engineering)

B.S.E.E., University of Arkansas Albert Fletcher Sargent (Electrical

Engineering) B.S.E.E., University of Arkansas

Ken H. Shamburger (Electrical

Engineering) B.S.E.E., University of Arkansas

Radhe Shyam Sharma (Electrical Engineering)

B.I.S.S., Pilani William Herschel Stiles (Electrical Engineering)

B.S.E.E., University of Arkansas

#### MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

Bruno Kirsch, Jr. (Environmental Engineering)

B.S.I.E., University of Arkansas Michael Charles Livingston

(Environmental Engineering) B.S.Ch.E., University of Arkansas
Bobby L. Makin (Environmental

Engineering) B.S.Ch.E., University of Arkansas Richard Dale Norton (Environmental

Engineering) B.S.M.E., University of Arkansas

Fred M. Oswald (Environmental

Engineering) B.S.Ch.E., University of Arkansas

Gregory Dean Reed (Environmental

Engineering) B.S.M.E., University of Arkansas

### MASTER OF SCIENCE IN ENGINEERING SCIENCE

Thomas Walter Cromer (Engineering Science) B.S.E.S., University of Arkansas

Francisco J. Burgos Navarrete (Engineering Science) B.S.Ch.E., Universidad Del Atlantico

## MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Dean Graham Adams (Industrial Engineering)

B.S.I.E., University of Arkansas

David Forrest Byrd (Industrial Engineering) B.A., Hendrix College

Ronald J. Classen (Industrial Engineering) B.S.I.E., University of Arkansas

Alvyn Gail Croxton (Industrial Engineering) B.S.E.E., University of Arkansas

Kun-chan Hsieh (Industrial

Engineering) B.S., Tatung Institute of Technology Siva Ramakrishna Paladugu

(Industrial Engineering) B.E., Andhra University

#### MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Wilbur W. Bhagat (Mechanical Engineering)

B.Tech., Indian Institute of Tehnology

Tzu Ben Chen (Mechanical

Engineering)
B.S., Tatung Institute of Technology

Roy Randolph Culp (Mechanical

Engineering)
B.S.M.E., University of Arkansas

B.S.M.E., University of Arkansas Bohra Imran Hatim

(Mechanical)

B.E., Bombay University

Eugene G. Joyce, Jr.

(Mechanical Engineering) B.S.M.E., University of Arkansas

Jerrel Dean Martin (Mechanical

Engineering)
B.S.M.E., University of Arkansas

William Jennings Reed, Jr.

(Mechanical Engineering)
B.S.M.E., University of Arkansas

Uday-Manilal Shah (Mechanical

Engineering)
B.E., Mysore University

#### MASTER OF SCIENCE IN OPERATIONS RESEARCH

Dale E. Brown (Operations Research)

B.A., Arkansas Polytechnic College

Don Richard Coffield (Operations

Research)
B.S.I.E., University of Arkansas

William R. Lesyna (Operations Research)

B.S., University of Notre Dame

Harinarayana Reddy Nukalapati (Operations Research)

B.E., S. V. University

#### MASTER OF MUSIC

Max Lemay Ryan (Music - Voice)

Vicki Kathleen Terrell (Music)
B.M., Texas Wesleyan College

Meredith Estelle Wootton (Music)
B.M., Howard Payne College
B.M.E., Howard Payne College

#### MASTER OF FINE ARTS

Arthur Jackson Baker (Creative

Writing)
B.A. Memphis State University

Maurice Blaine Caldwell (Art)

B.A., College of the Ozarks

Catherine Ann Christie (Art) B.A., Hendrix College

Robert Samuel Gwynn (Creative Writing)

A.B., Davidson College

Anthony Charles Indorf (Art)
B.F.A., Sam Houston State University

A. Ferrel James (Art)
B.S.E., State College of Arkansas

Willard Howard Mathis (Art)
B.S.E., Henderson State College

Robert Edward McCart (Art) B.A., College of the Ozarks

Geraldine Lynn McNamee (Art) B.A., Fairleigh Dickinson University

Ann Caroline Shumaker Shuck (Art)
B.A., Hendrix College

Patrick James Shuck (Art)
A.D., Leeds College of Art

Michael Leon Stokesbury (Creative Writing)

B.A., Lamar State College of Technology

Bruce Edward Taylor (Creative Writing)

B.A., State College of Massachusetts

#### ASSOCIATE OF PHILOSOPHY

Judith Ann Frick (English)

A.B., Colorado State College
M.Ed., University of Arkansas
M.A., University of Arkansas

Janis Tucker Grisham (English)
B.S.E., Quachita Baptist University
M.A., University of Arkansas

Sandra Carolyn Olsen Looney

(English)
B.A., Augustana College
M.A., University of Arkansas

Katherine Carroll Morehead (English)

B.A., Arkansas State Teachers College

Kathryn Melinda Nixon (English)

B.A., Clemson University M.A., University of Arkansas

#### EDUCATION SPECIALIST

#### Gerald David Bowers

Educational Administration)

B.A., Henderson State Teachers College M.Ed., University of Arkansas

#### Raymond F. Graham

(Educational Administration)

B.A., Arkansas Polytechnic College M.Ed., University of Arkansas

### Choong Ki Kim (Counselor

Education)

B.A., Sung Kyun Kwan University M.Ed., Seoul National University M.S., State College of Arkansas

## Bobby Gerald Lester (Educational Administration)

B.S., State College of Arkansas M.Ed., University of Arkansas

#### Jane Lofton Weare (Secondary Education)

B.S., Harding College M.A., University of Arkansas

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#### DOCTOR OF EDUCATION

## Owen A. Tom Biller (Counselor

Education)

B.A., Cedarville College
M.A., Valparaiso University
Dissertation: "Communication of Emotions Through
Instrumental Music and the Music Selection
Preferences of Patients and Non Patients
Experiencing Various Emotional Moods."

#### James Tedford Brown (Vocational Education)

B.S., Southwest Missouri State College

M.S., Central Missouri State College
M.S., Central Missouri State College
Dissertation: "A Comparison of Three Laboratory Instructional Methods Used in an Electronic Test Instruments Course."

#### Virgil Lee Carter (Vocational Education)

B.S., Northeastern State College
M.T., Northeastern State College
Dissertation: "Status of the Industrial
Programs in the State of Oklahoma
Recommendations for Improvements." Industrial With

#### Barbara Jean Cooper (Elementary Education)

B.S.E., University of Arkansas M.Ed., University of Arkansas Dissertation: "An Analysis of Selected Oral Reading Errors and Their Relationship to Decoding Skills and Reader Ability Level."

## Jerry Calvin Daniel (Educational Administration)

M. S.S.E., Southern State College
M.Ed., University of Arkansas
Dissertation: "A Study of Arkansas Middle Schools
to Determine the Current Level of Implementation of Nine Basic Middle School Principles."

### Roger W. Denker (Physical Education)

M.S., South Dakota State University
M.S., South Dakota State University
Dissertation: "The Effect of Two Different Periods of Weight Reduction Upon the Physical Fitness of College Wrestlers."

## Mary Louise Webb Fields

(Elementary Education)

B.A., University of Arkansas M.S., Oklahoma State University Dissertation: "Color, Size, and Form Preference in Infants."

## Roy Ghazimorad (Counselor

Education)

B.S., Washburn University
M.S., Kansas State Teachers College
Dissertation: "A Correlational Study of Patterns of Subscription to Set of Cliches, Anxi Level, and Internal-External Dominance."

# Robert Donald Hilliard (Secondary

Education)

B.S., Lindenwood College M.Ed., University of Arkansas Dissertation: "Relationships Between Selected Com-munication Behaviors of Teachers and Teacher Effectiveness as Perceived by Teachers and Their Students."

#### James Stokes Holt, III (Higher Education)

B.S., Central State University M.Ed., Louisiana State University
Dissertation: "The Academic Success of Shreveport Campus Transfers to the Upper-Division
of Southern University."

## William Michael Hutcheon (Higher Education)

B.S., Northwest Missouri State College
M.S., Municipal University of Omaha
Ed.S., University of Iowa
Dissertation: "A Survey of Attitudes Regarding
the Student-Institutional Relationship and its
Impact on Policy-Making."

#### Daryl Harvey Johnson (Higher Education)

M.A., Vorthwest Missouri State College
M.A., University of South Dakota
Dissertation: "A Comparison of Selected Personality Factors of Community College Teachers and Teachers in the State Colleges of Missouri."

# William Elwin King (Secondary

Education)

B.B.A., Eastern New Mexico University M.E., Texas Tech College
Dissertation: "A Comparison of the Opinions of
Two Selected Groups of Secondary Social
Studies Teachers Concerning the Fifth Year
of Teacher Education."

Trudy Knox (Higher Education)

B.S., Northwestern University
M.A., University of Florida
Dissertation: "The Effect of Transactional Analysis Groups on Internal-External Locus of Con-

## Virginia Rae Krauft (Counselor

Education)

Education,
B.A., Coe College
M.S., Southern Illinois University
M.S., Southern Illinois University
Grade Behavioral Problem

#### E. Gilmore Love (Counselor

Education)

M.S., University of Oklahoma

Dissertation: "The Effect of a Self-Improvement
Program for Teachers on Their Attitudes
Toward Teacher-Pupil Interaction."

### Greta S. Mack (Higher

Education)

A.B., Duke University

M.A., University of Kansas

Dissertation: "Roles and Rewards of Faculty

Members at the University of Arkansas."

## Harold Gene Morris (Secondary

Education)

B.S.E., University of Arkansas M.Ed., University of Missouri Dissertation: "Value Transfer Relative to Socio-Economic Status of High School Students and Proximity of the High School to a University Campus."

### Shela Jo Duby Moss (Elementary Education)

B.S., Oklahoma State University

M.S., Oklahoma State University
Dissertation: "A Token Reinforcement Reading
Program Conducted With Regular Classroom
Instructional Materials."

## Paul Clay Motley (Physical

Education)

B.A., Eastern Kentucky State University
M.A.Ed., Eastern Kentucky State University
Dissertation: "Personality and Attitude Change
of College Freshmen Due to Participation in
a Required Adapted Physical Education Program.

# Bill L. Nutter (Physical Education) B.A., Hendrix College M.S.E., Arkansas State Teachers College

Dissertation: "A Comparison of the Modified Standing Start and the Traditional Crouch Starts for Running Speeds."

## William Alton Parish (Higher

Education)

M.S., North Texas State University
M.S., North Texas State University
Dissertation: "The Educational
Thostein Veblen."

### Jim G. Shoemaker (Vocational

Education)

B.S.E., State College of Arkansas M.Ed., University of Missouri Dissertation: "Arkansas Vocational-Technical School Personnel Characteristics as Related to Self Perceived Needs For Professional In-Service Education."

# Paul Joseph Smith (Educational

Administration)

A.B., Rockhurst College
M.S.Ed., Western Illinois University
Dissertation: "Teacher Satisfaction and Organizational Climate Relationships in Selected Little Rock, North Little Rock and Pulaski County Special Elementary School."

## Ali Mohammed Towagry (Educational Administration)

B.S., College of Sharia

M.S.E., University of Kansas Dissertation: "Organization Analysis and Proposed Reorganization of the Ministry of Education of the Kingdom of Saudi Arabia."

#### Anna Ruth Trexler (Secondary Education)

B.S.E., Southeastern State College
M.S., Oklahoma State University
Dissertation: "A Study to Determine the Effectiveness of the Gregg/Pacesetter in Beginning
Typewriting."

#### Jesse Glenn Walker (Secondary Education)

B.S.E., Louisiana Polytechnic College M.Ed., University of Arkansas Dissertation: "Instructional Difficulties of Beginning Junior High School Science Teachers in Arkansas, 1972-73." Arkansas,

#### Bonnie Kirby Whitmore

(Elementary Education)

B.S., Southern State College

M.Ed., Southern State College
Dissertation: "Early Childhood Education: A Bibliography of Federal Legislation."

#### Edna Isabel Yarbrough (Physical Education)

B.S., Texas Woman's University
M.A., Texas Woman's University
Dissertation: "The Effect of Breakfast on the Performance and Blood Glucose Level University Women."

## DOCTOR OF PHILOSOPHY

## William Louis Anthes (Economics)

A.B., Rockhurst College
Dissertation: "An Economic Examination of the
Omaha, Nebraska Concentrated Employment
Program."

## Panayotis A. Apostolidis (Economics)

M.B.A., University of Athens
M.B.A., University of Houston
Dissertation: "An Investigation of Selected Operating Ratios with Emphasis on Size of
Member Banks of the Eleventh Federal Reserve District for the Years 1960-69."

#### Terry L. Arndt (Finance)

B.S., Murray State College
M.B.A., DePaul University
Dissertation: "An Inquiry into the Relationship
Between Securities with Abnormally High Positive Price Changes and Selected Financial Ratios."

#### Judith Gott Arthurs (English)

B.A., Little Rock University

M.A., University of Arkansas
Dissertation: "Edmund Spenser and Dan Chaucer:
A Study of the Influence of the Canterbury
Tales on The Faerie Queene."

## Phillip W. Balsmeier (Business

Administration)

B.A., Kansas State Teachers College
M.S., Wichita State University
Dissertation "The Development of an Induced
Course Load Matrix for the University of Arkansas — A Case Study." of an Induced

## Donald La Vere Bates (Management)

B.S., Indiana State University

M.A., Indiana State University

Dissertation: "The Origins and Career Path Development of the Modern Turkish Business Elite."

## Holland Cornelius Blades, Jr.

(Marketing)

M.Ed., University of Southern Mississippi
Dissertation: "The Impact of the Arkansas Usury
Ceiling Upon Selected Retail Firms in Texarkana and Fort Smith."

#### Scott Boaz (Economics)

B.A., University of Arkansas M.B.A., University of Arkansas Dissertation: "Some Aspects of the Magnitude, Orientation, and Trend of Soviet Capital For-

### William G. Brown, Jr. (Animal

B.S., University of Tennessee M.S., Oklahoma State University Dissertation: "Some Aspects of Beef Cattle Be-havior as Related to Productivity."

## Alfonso Navarrete Burgos (Animal

Science)

Escuela Agricola Panamerica Agromono
Dissertation: "Determination of Amino Acid Content and Availability of Different Feedstuffs and Their Application in Determining Amino Acid Requirements in the Broiler Chick."

#### Thomas Othon Callaway (Physics)

B.S., West Texas State University
M.S., West Texas State University
Dissertation: "The Effective Ion-Ion Potential for
Liquid Sodium from X-Ray Diffraction Data."

## Donald Alfred Carnahan

(Mathematics)

B.A., Arkansas College M.S., University of Arkansas Dissertation: "Some Properties Related to Compactness in Tapological Spaces."

#### Grady Dene Carney (Chemistry)

B.A., Delata State College
Dissertation: "Ab-Initio Calculation of Vibrational-Rotational Properties for the Ground Electronic State of the H+ Molecular Ion."

## James Keith Carroll (Animal

Science)

B.A., University of Missouri
M.A., University of Missouri
Dissertation: "Studies Related to Hypoglycemia
in the Neonatal Pig."

#### Jerry F. Casteel (Chemistry)

B.S., Northeastern State College

M.S., University of Arkansas

Dissertation: "The Conductivity, Density and
Viscosity of Electrolytes from Dilute to Concentrated Solutions at Various Temperatures
in High Dielectric Constant Solvents."

#### Nicky Chan (Chemistry)

B.A., Delta State College Dissertation: "The Structure and Photochemistry of Imidazole Complexes of Platinum (II)."

#### Yi-Shung Chen (Engineering)

B.S., National Taiwan University
M.S.E.S., University of Arkansas
Dissertation: "Steady-State Response of Hysteretic
Systems with a Multifold Yielding Distribution."

#### Ronald Neal Collins (Chemistry)

B.S., Western Illinois University

B.S., Western Hillions University
M.S., University of Arkansas
Dissertation: "Pt. I The Polarized Single Crystal
Electronic Spectra of Trans-Bis (Dimethylamine) Plantinum (II) Chloride
Part II Deuterium Exchange Reactions of Coordinated Beta-Diketonates of Cobalt (III)."

## John Irvin Coppett (Business

Administration)

M.B.A., University of Houston
Dissertation: "A Series of Experiments Analyzing
Friendship Groups' Evaluations of Selected
Products."

#### Robert Donald Coston (Economics)

B.S., Northeastern Louisiana State College M.B.A., Northeastern Louisiana State College Dissertation: "An Investigation of the Effects the Four-Day Workweek on Worker Productivity, Absenteeism, Turnover and Morale in the Georgia Apparel Industry."

# John Charles Cox (Marketing) B.S.E.E., University of Arkansas

M.B.A., University of Arkansas

Sas, As Filed in United States Courts; An Examination and Analysis of Selected Cases Under the Federal Bankruptcy Act.'

Sam Anthony Damico, Jr. (Zoology)
B.S., Northwestern State College of Louisiana
M.S., Northwestern State College of Louisiana
Dissertation: "The Limnetic Zooplankton of Beaver and Bull Shoals Reservoirs: Composition, Seasonal Abundance, Structure and Vertical Migration."

## George V. Davis (Agronomy-Crop

Physiology)

B.S.A., University of Arkansas M.S., University of Arkansas Dissertation: "The Nutritive Value White Lupine Forage and Seed for Ruminants.

## Richard N. Davis (Management)

B.A., University of California
M.B.A., San Jose State College
Dissertation: "Human Development in the Framework of Rural Development."

## Gordon Oliver Dodson, Jr.

(Business Administration)

B.B.A., North Texas State University M.B.A., North Texas State University Dissertation: "Barriers to the Training and Employment of Low-Income Household Heads in Urban, Transitional, an Rural Counties in the Western Arkansas Planning and Development District."

## David Eugene Douglas (Engineering)

B.S.I.E., University of Arkansas M.S.I.E., University of Arkansas Dissertation: "Management Information Systems for the Construction Industry.'

## Ronald Herron Eaton (Accounting)

B.B.A., Memphis State University
Dissertation: "An Inquiry into a Method for
Allocating Operation and Maintenance of Physical Plant Funds to Tennessee Public Institutions of Higher Education."

## Waldemar Eichmann (Comparative

Literature)

B.A., Harding College M.A., University of Arkansas
Dissertation: "The Critical Reception of Gunter Grass in France from 1961-1971.

Bob G. Figgins (Economics)

B.S.B.A., Harding College
M.B.A., University of Arkansas
Dissertation: "Intergenerational Occupational Socioeconomic Status Mobility of Selected 1965
Missouri High School Graduates."

## Manuel Flores, Jr. (Economics)

M.A., McMurray College
M.A., Hardin-Simmons University
Dissertation: "A Factor Analysis of Economic
Opportunity Loans in a Multi-County Rural
Area of Texas."

Jack Allen Fuller (Management)

B.S.E.E., Iowa State University
Dissertation: "An Investigation of Mathematical
Programming and Heuristic Methods to Aggregate Production Planning."

Gerald L. Gehre (Economics) B.A., Nebraska Wesleyan University

M.A., University of Nebraska

Dissertation: "The Measurement and Role

Frank Producers' Economic Perception

Attitudes Toward Class I Base Plans." and

Virginia Shaw Geurin (Management)

B.S.B.A., University of Arkansas
M.B.A., University of Arkansas
Dissertation: "Educational and Occupational
Achievements of Rural Youth in Relation to
Educational and Occupational Aspirations
A Follow-up Study."

Ilene Quade Gipson (Zoology)

B.A., Drury College
M.S., University of Arkansas
Dissertation: "Ultrastructure of Early Cleavage
in the Chick Blastoderm."

Robert Thomas Greubel (Economics)

B.S., Memphis State University
M.A., Memphis State University
Dissertation: "An Evaluation on the Performance
of the Electrical Machinery Industry A Case Study of an Industry."

Hannah Lucille Hedrick

(Comparative Literature)

M.A., College of Puget Sound
M.A., University of Maryland
Dissertation: "Theo Van Doesburg, Propagandist
and Practitioner of the Avant — Garde:
Belletristic Activity in Holland, Germany, and
France, 1909-1923."

Gaylord Milton Hoyt

(Mathematics)

B.S., Louisiana State University
M.S., Louisiana State University
Dissertation: "Results on Cluster Sets for Functions Into Banach Spaces."

Jerry J. Ingram (Marketing)

B.S., University of Alabama
M.A., University of Alabama
Dissertation: "A Product Use Analysis of Negro
and White Consumers."

Charles Edwin Jones (Philosophy)

B.A., Southern Methodist University
B.D., Duke University
Dissertation: "The Theory of Truth as Subjectivity in Kferkegaard. Compared with Theories of Truth in Blanshard and Ayer."

Carolyn Kane (English)

B.A., Hendrix College
Dissertation: "Nathaniel Hawthorne in his work:
The Author in Relation to His Time and

Robert M. Krudener (Engineering)

B.S., Massachusetts Institute of Technology

M.S., Massachusetts Institute of Technology
M.S., University of Michigan
M.S.M.E., University of Arkansas
Dissertation: "Transient and Steady Temperature
Distributions in Nuclear Fuel Rods Utilizing
Large Center Voids and Auxiliary Heat-Flow
Paths."

Bobby Ray Layton (Chemistry)

B.S., Arkansas State College M.S., University of Arkansas

Dissertation: "Photolysis of Substituted Bromoben-

Julio S. Leon (Management)

B.A., Universidad Texica del Estado

M.B.A., North Texas State University Dissertation: "An Investigation of the Applicability of the Two-Factor Theory of Job Satisfaction Among College Professors."

Glynn C. Lively (Engineering)

B.S., Northeastern State College
M.S., University of Arkansas
Dissertation: "A Closed Form Solution to a Special Markov Chain Process."

### Richard Thomas Mayhew

(Chemistry)

B.S., Wheaton College
Dissertation: "The Electron Exchange Reaction
Between Uranium (VI) and Tin (II) in a
N-Methylacetamide — Water Solutions."

Thomas I. Miller (Accounting)

B.S., Murray State College

M.B.A., Murray State College
Dissertation: "An Inquiry into the Feasibility of
External Reporting of Forecasted Financial Information.

#### Willard Ellsworth Millis, Jr.

(Psychology)

(Tsychrology)
B.A., University of Massachusetts
M.Ed., Springfield College
Dissertation: "The Development of Mediation in
Children as Shown by a Paired Associate Task."

#### R. James Mitchell (Animal Science)

James Mitchell (Allima Science)
B.S., University of Nebraska
Dissertation: "Relationship of Dietary Nutrient
Density Upon Nutrient Interrelationships and
the Performance of Broiler Chicks."

#### David Thomas Moore (Chemistry)

B.S., Oklahoma State University
M.S., University of Arkansas
Dissertation: "A Radiochemical Study of Atmospheric Debris from Recent Nuclear Tests."

#### Linda Lou Munchausen (Chemistry)

B.S., Southeastern Louisiana College Dissertation: "The Neighboring-Group Effect of o-Acetamido Groups in the Photolysis
Aromatic Acetylenes and Nitriles."

#### Ahmad Nevissi (Chemistry)

B.S., Tehran University
M.S., Hanover University
Dissertation: "Long-lived Radon Daughters as Radioactive Tracers."

## Brenda Hudson Nobles (Psychology)

B.A., University of Arkansas M.A., University of Arkansas Dissertation: "Sex of the Experimenter and Sex of the Subject as Variables in Verbal Learning."

#### Mitsuo Oka (Chemistry)

B.S., Sophia University

M.S., University of Arkansas Dissertation: "Carbon-13 and Carbon-14 Tracer Studies of Acid-Catalyzed Aliphatic Ketone Rearrangements."

#### Billy James Pace (English)

B.A., Rollins College

M.A., University of North Carolina
Dissertation: "The Relation of D. H. Lawrence
and Richard Wagner."

#### Hampton Marrs Parker (Botany)

B.S.Ed., Eastern Illinois State College
M.S., Eastern Illinois University
Dissertation: "A Biosystematic Study of Section
Calliopsis of Coreopsis (Compositae)."

#### Karen Amelia Pashman (Chemistry)

B.A., McMurray College
Dissertation: "Photochemically-Induced Linkage
Isomerization of Transition-Metal Complexes
in the Solid State."

#### James V. Pearson (Engineering)

B.S.E.E., University of Minnesota M.S., University of Arkansas Dissertation: "Estimation and Optimal Control Techniques Applied to a Small College Sys-

## Fred A. Petro (Business

Administration)

B.S., University of Southern Missouri M.S., University of Southern Missouri Dissertation: "A Study of Accounting for Long
Term-Leases in the Financial Statements of
the Lessee and the Lessor."

Willard B. Platzer (Marketing)
B.B.A., Lamar State College of Technology
M.B.A., University of Arkansas
Dissertation: "An Analysis of Ecologically Motivated Consumer Purchase Behavior."

Ralph S. Polimeni (Accounting)

B.S., Long Island University
Dissertation: "Accountant's Role in Quality
Control Activities and Development of Operational Quality Control Audit Guidelines."

#### Paul Leonard Raines (Botany)

B.S.A., University of Arkansas Dissertation: "The Ecological Life History of Elymus virginicus L. var. glabriflorus (Vasey)

#### S. Ramagopala Rao (Marketing)

B.A., Andhra University

M.B.A., Andhra University
Dissertation: "Industrial Procurement: Identifying
Dimensions for Evaluating Potential Vendors."

#### Stephen H. Replogle (Economics)

B.S., Southwest Missouri State College

M.B.A., University of Arkansas
Dissertation: "The Manipulation of the Money
Supply and the Shiftability of the Phillips
Curve."

## James Averyt Rix (Business

Administration)

B.A., Abilene Christian College

"Inquiry into Application of Standard Cost Techniques in Back Office Opera-tions of Investment Banking Firms."

#### Allen Fred Robinette (Chemistry)

B.S., Arkansas State Teachers College M.S., Louisiana State University

Dissertation: "Electromotive Forces and Thermodynamic Functions of the Cell Pt, H<sub>o</sub>, H<sub>2</sub>/ HBr, (m) agyr, Ag in Pure and Mixed Solvents."

## Charles H. Rogers (Physics)

B.S., University of Arkansas M.S., University of Arkansas Dissertation: "Structural Studies of Simple Molecular Liquids.'

## J. William Rush (Marketing)

M.B.A., University of Oklahoma
M.B.A., University of Oklahoma
Dissertation: "An Examination of the Changing
Character of Mississippi's Transport Sector:
A Study of the Motor Transportation Industry
with Particular Emphasis upon the Period

#### Wayne D. Samuelson (Psychology)

B.A., University of Minnesota M.A., University of Arkansas

Dissertation: "Learning Effects in Species Identification: A Test of the Association vs. Arousal Hypotheses."

## Ernest Theodore Schoenwald

(Engineering)

B.S.C.E., Massachusetts Institute of Technology M.B.A., Harvard M.S.I.E., University of Arkansas

Dissertation: "Complex Cepstrum Decomposition and Wiener Filtering of an Autocorrelated Stochastic Time Series."

#### David L. Scott (Economics)

B.S., Purdue University
M.S., Florida State University
Dissertation: "The Economics of Environmental Pollution: The Case of the Electric Power In-

# Thomas Francis Sharby (Animal

Science)

B.S.A., University of Manitoba
Dissertation: "Effect of Feeding Experimentally
Molded Corn to Broiler Chicks and Turkey
Poults."

#### Jack Glen Sheppard (Engineering)

B.S.E.E., University of Arkansas

M.S.E.E., University of Arkansas Dissertation: "On-Line Testing Using Average Cor-relation Functions."

#### Paul D. Sidler (Accounting)

B.S.B.A., University of Arkansas
M.B.A., University of Arkansas
Dissertation: "Ethical Problems Associated with Management Advisory Services by Certified Public Accounts."

#### Joseph Charles Simpson (Chemistry)

A.B., Monmouth College

Dissertation: "Bare Nucleus Perturbation Theory
Applied to Small Molecules: Optimization
and the Use of One Electron Basis Sets."

#### Donald R. Smith (Engineering)

B.S.I.E., University of Arkansas M.S.I.E., University of Arkansas

Dissertation: "A Bayesian Approach to Generalized Reliability Networks Utilizing Distribution-Free Techniques."

## Donald Rexford Stamper (English)

A.B., Morehead State College M.A., University of Arkansas Dissertation: "Success and Openness in English Fiction From Richardson Through Jane Aus-

#### Ralph Staudenmayer (Chemistry)

B.S., University of California
M.S., University of Arizona
Dissertation: "A Photolytic Study of N-Acetylanthranilic Acid."

## John Raymond Tanner (Management)

B.S., University of Southwest Louisiana

B.S., University of Southwest Louisiana
M.B.A., University of Arkansas
Dissertation: "An Analysis of the Personnel
Policies in the Senior State Colleges and
Universities in Eight States in the Southern
and Midwestern Regions of the United
States."

#### Ronnie H. Thompson (Chemistry)

B.S., Louisiana Tehnology College M.S., Louisiana Technology College

Dissertation: "Alterations of the Isotopic Compositions of the Noble Gases by Nuclear Astro-Chemical Processes."

## Robert Layne Warren (Business

Administration)

B.B.A., Memphis State University M.B.A., Memphis State University

Dissertation: "A Critical Examination of External Reporting of Changes in Financial Position with Emphasis on the Impact of Ac-counting Principles Board Opinion No. 19 and on the Usefulness of "Funds Flow" In-formation."

#### J. Donald Weinrauch (Marketing)

B.S., Northern Illinois University
M.S., Northern Illinois University
Dissertation: "Export Marketing Activities and
Problems: An Exploratory Study of Experiences and Perceptions of Business Firms in Arkansas." Jerry Dean Whitt (Business Administration)

AGMINISTRATION)

B.B.A., North Texas State University

Dissertation: "The Development and Analysis of
the Algorithm Sequential Access Method of
Addressing Direct Access Storage Devices."

William H. Woods (Zoology)

B.S., Philander Smith College
M.S., Atlanta University
Dissertation: "A Comparative Study of Skin
Ultrastructure from Three Species of Small
Colubrid Snakes."

NOTE: The above list contains the names of all prospective degree candidates and is not an official list of those actually receiving degrees.

Bachelors Assoc. Professional Masters

Doctors

# Honorary Degrees

Doctor of Laws

Roy Kumpe

Hugh Baskin Patterson, Jr.

## Citations

Distinguished Alumna and Alumnus

Joe E. Covington

Mary L. Good

Frederick Lee Liebolt

Awards

Trustee Emeritus

John L. Wilson

R. E. L. Wilson, III

# Honorary Degree Commendations

#### ROY KUMPE

Roy Kumpe is a humanitarian whose dynamic leadership has greatly improved the opportunities and conditions of life for the blind citizens of Arkansas.

Handicapped since childhood by his own impaired sight, he has been for many years the motivating force in the programs of the Arkansas Enterprises for the Blind Rehabilitation Center. He spearheaded the organization of the International Services for the Blind, created for the purpose of financing training scholarships for professionals at the Rehabilitation Center and from other countries. This organization also provides consultative services for establishing rehabilitation services in foreign nations.

He has served as chairman of the Governor's Committee for Employment of the Handicapped and as President of the American Association of Workers for the Blind. He is a recipient of the Humanitarian Award of Lions International.

## HUGH B. PATTERSON, JR.

Hugh B. Patterson, Jr. is a distinguished and widely recognized leader in the field of American journalism.

During his tenure as publisher of the Arkansas Gazette, the newspaper has received two Pulitzer Prizes in a single year, the first newspaper in the country to be so honored.

Mr. Patterson exerts his own influence, and that of his newspaper, in support of improvement of Arkansas education at all levels. He is a member of the Board of Visitors of the University of Arkansas at Little Rock. He has served as a director of the National Citizens Committee for Better Schools and as a member of the National Committee for the Support of Public Schools.

Mr. Patterson is active in civic and governmental affairs and was a founding member of the Southern Committee on Political Ethics.

He has held numerous positions of leadership in his profession, having served successively as a director, treasurer, president and Board chairman of the Southern Newspaper Publishers Association. He also has served as a member of the Labor Relations Committee of the American Newspaper Publishers Association.

#### JOE E. COVINGTON

Joe E. Covington is an able and dedicated educator in the field of law who holds regional and national stature.

Dr. Covington is a former provost of the University of Arkansas, and served as Acting President of the University in 1951-52 and again in the Spring of 1953. He became Dean of the School of Law at the University of Arkansas in 1954 and four years later accepted the Deanship at the University of Missouri School of Law. He now holds an endowed chair as the Phil Sheridan Gibson Professor of Law at the University of Missouri.

He is a member of the American Bar Foundation, an organization within the American Bar Association whose membership is limited to one quarter of one per cent of the attorneys in the United States.

He has served as Director of Testing for the National Conference of Bar Examiners since 1969. In this position, he administers the Multistate Bar Examination, developed on his initiative, which was given for the first time in 1972 to more than 16,000 applicants for admission to the bars of 33 states.

Dr. Covington received his bachelor's and law degrees from the University of Arkansas and the Master of Law and the Doctor of Juridical Science degrees from the Harvard Law School.

#### MARY L. GOOD

Dr. Mary L. Good is a highly distinguished scholar and scientist in the fields of chemistry and nuclear energy.

As a professor on the faculty of Louisiana State University at New Orleans, Dr. Good is chairman of the institution's Nuclear Energy Committee and is the first woman to be appointed to the Board of Directors of the Oak Ridge Associated Universities.

Her achievements in teaching, research and administrative activities are numerous and varied. Among other responsibilities, she is a member of the National Science Foundation's Advisory Council on Chemistry. She is a frequent participant in international scientific conferences and symposia.

Dr. Good received her Bachelor's degree from State College of Arkansas, and her master's and doctoral degrees from the University of Arkansas.

#### FREDERICK LEE LIEBOLT

Dr. Frederick Lee Liebolt is a nationally known orthopedic surgeon and medical educator in New York City.

Author of 20 books on the various aspects of orthopedics, he is responsible for many innovative and pathfinding surgical procedures in his specialty.

He previously has been awarded an honorary degree by the University of Arkansas and he has taught on the medical faculties of Columbia and Cornell Universities and Ithaca College in New York, He served during World War II as head of the Department of Orthopedic Surgery at Cornell University Medical College and currently serves as orthopedic surgeon to the New York Hospital — Cornell Medical Center. He is a member of the American Board of Orthopedic Surgery.

He received his Bachelors degree from the University of Arkansas and his MD degree from the Washington University School of Medicine in St. Louis.

